	Application No.	Applicant(s)
Notice of Allowability	10/691,311	JUVE ET AL.
	Examiner	Art Unit
	Lisa M. Solomon	2861
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to <u>10/05/2007</u> .		
2. The allowed claim(s) is/are 12,14,16,18-20,27,33,34 and 37-39.		
 3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have been received. 		
2. Certified copies of the priority documents have been received in Application No		
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
 DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. 		
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Attachment(s)		
1. Notice of References Cited (PTO-892)	5. Notice of Informal P	atent Application
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summary	(PTO-413),
3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	Paper No./Mail Da 7.	nent/Comment
4. Examiner's Comment Regarding Requirement for Deposit	8. 🛭 Examiner's Stateme	ent of Reasons for Allowance
of Biological Material	9.	

Application/Control Number:

10/691,311 Art Unit: 2861

DETAILED ACTION

Allowable Subject Matter

1. Claims 12, 14,16-20, 27, 33-34, 37-39 have been allowed.

The following is an examiner's statement of reasons for allowance: The primary reason for allowance of claims 12, 27, 33-34 is the inclusion of the limitation of a printing system that includes "the controller is configured to generate pre-warming signals for the required plural portions after printing of said print swath has begun; and while printing said print swath, after ink ejection from one of said plural portions is no longer required to complete said print swath, the controller is configured to cease to generate a pre-warming signal." (claim 12), "means for generating the pre-warming signal for one said plural portions...means for ceasing generation of the pre-warming signal during printing of the print swath after printing said initial segment" (claim 27), "analyze an upcoming print swath to determine which of said plural portions are required to eject ink in order to print the swath in accordance with a predefined selection criteria different from the upcoming print swath" (claim 33), and "supply the pre-warming signal to one or more heater elements of only portions required to eject ink-the print the swath...the controller stops supplying the pre-warming signal to the heater elements of the portions required to eject the ink to print the swath during the printing of the swath" (claim 34). It is this limitation found in the claims, as it is claimed in the combination that has not been found, taught or suggested by the prior art of record, which makes these claims allowable over prior art.

Application/Control Number:

10/691,311 Art Unit: 2861

The primary reason for the allowance of claims 12, 16, 18-20, 37-39 is the inclusion of the limitations of a method of pre-warming a multi-color printhead that includes "generating a pre-warming signal for said dispensing portion... omitting generation of a pre-warming signal for said non-dispensing portion to produce no prewarming thereof" (claims 14, 16, 18), "printing a print swath from a beginning point to an ending point; continuing generation of the pre-warming signal after printing from the beginning point; monitoring printing temperature of each of said plural portions during said printing; and ceasing to generate the pre-warming signal when the printing temperature exceeds a threshold temperature before printing to the ending point" (claim 19), "... "continuing generation of the pre-warming signal for said transactional portions during printing of the initial segment and ceasing generation of the pre-warming signal during printing of the final segment" (claim 20), "beginning printing of a print swath having a plurality of segments; and ceasing generation of the pre-warming signal for a particular dispensing portion during printing of a final segment of the print swath" (claim 37), and "beginning printing of a print swath; and ceasing generation of the pre-warming signal for a particular dispensing portion during printing of the print swath after ink dispensing form the particular dispensing portion is concluded for the print swath" (claim 38). It is these limitations found in the claims, as they are claimed in the combination that has not been found, taught or suggested by the prior art of record, which makes these claims allowable over the prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably Application/Control Number:

10/691,311 Art Unit: 2861

accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lisa M. Solomon whose telephone number is (571) 272-1701. The examiner can normally be reached on Monday - Friday from 8:00 am - 4:30 pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew Luu can be reached on (571) 272-7663. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Lisa M. Solomon Patent Examiner 12/15/2007

MATTHEW LUU SUPERVISORY PATENT EXAMINER